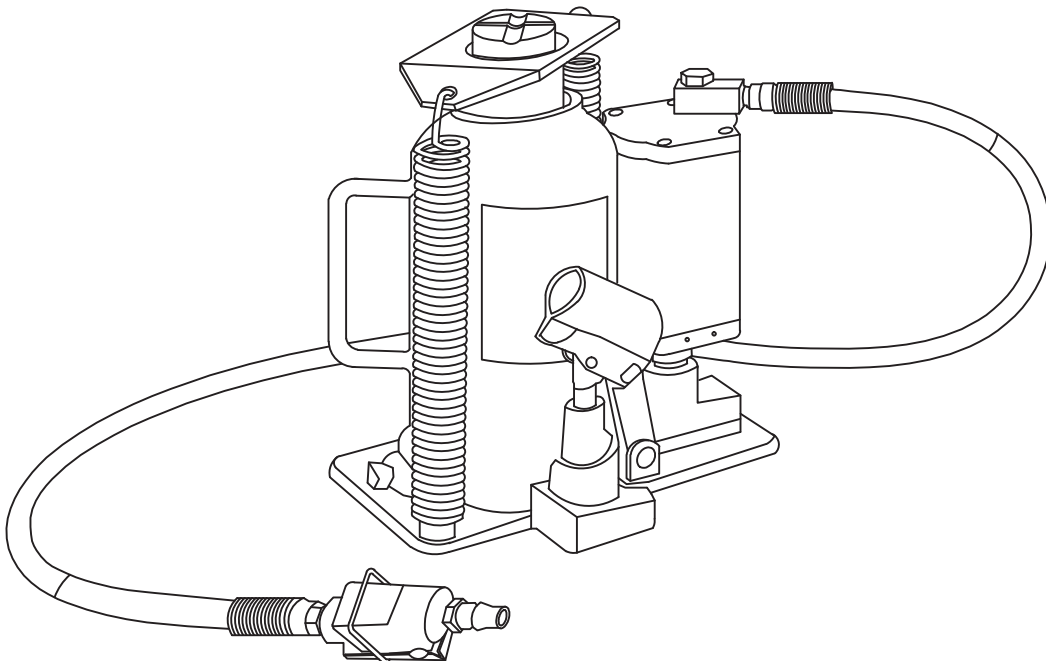




MODEL 69120B
AIR / MANUAL BOTTLE JACK
20TON CAPACITY
USER'S MANUAL



FOR YOUR SAFETY

Read all instructions, warnings and cautions carefully. Follow all safety precautions to avoid personal injury or property damage during system operation. Jackco cannot be responsible for damage or injury resulting from unsafe product use, lack of maintenance or incorrect product and/or system operation. Contact Jackco when in doubt as to the safety precautions and operations.

Failure to comply with the following cautions and warnings could cause equipment damage and personal injury.

WARNING

- Stay clear of loads supported by hydraulics. A cylinder, when used as a load lifting device, should never be used as a load holding device. After the load had been raised or lowered, it must always be blocked mechanically.
- Do not exceed equipment rating never attempt to lift a load weighing more than the capacity of the cylinder. Overloading causes equipment failure and possible personal injury. The cylinders are designed for a maximum pressure of 10,000 psi. Do not connect a jack or cylinder to a pump with a higher pressure rating.
- The system operating pressure must not exceed the pressure rating of the lowest rated component in the system. Install pressure gauges in the system to monitor operating pressure. It is your window to what is happening in the system.
- **BE SURE SETUP IS STABLE BEFORE LIFTING LOAD.**
Cylinders should be placed on a flat surface that can support the load. Where applicable, use a cylinder base for added stability. Do not weld or otherwise modify the cylinder to attach a base or other support.
- Avoid situations where loads are not directly centered on the cylinder plunger. Off-center loads produce considerable strain on cylinders and plungers. In addition, the load may slip or fall, causing potentially dangerous results.
- Immediately replace worn or damaged parts genuine JACKCO parts. Standard grade parts will break causing personal injury and property damage. JACKCO parts are designed to fit properly and withstand high loads.

DANGER

- To avoid personal injury keep hands and feet away from cylinder and work piece during operation.
- **NEVER** set the relief valve to a higher pressure than the maximum rated pressure of the pump. Higher settings may result in equipment damage and/or personal injury. Do not remove relief valve.

CAUTION

- Keep hydraulic equipment away from flames and heat. Excessive heat will soften packing and seals, resulting in fluid leaks. Heat also weakens hose materials and packings. For optimum performance do not expose equipment to temperatures of 150°F or higher. Protect hoses and cylinders from weld spatter.
- Hydraulic equipment must only be serviced by a qualified hydraulic technician. For repair service, contact your equipment dealer / service center. To protect your warranty, use only JACKCO hydraulic oil.

Specifications

Lifting Capacity	Min Height		Max Height		Shipping Weight		Working Pressure
20 Ton	9.6 inch	245mm	18.7 inch	475mm	39.6 Lbs	18kg	101-145 psi

Inspection

Prior to each use, visually inspect for leaking hydraulic oil, damaged, loose or missing parts. If jack is worn or damaged, remove from service and contact your equipment dealer / service center for repair.

Maintenance

Check oil level. With the jack in an upright position and the ram completely retracted, open the release valve (turn counter-clockwise) and remove the filler plug. The oil level should be just up to the hole. Fill if necessary with clean hydraulic jack oil.

Lubricate internal components. With the release valve open, manually pump the handle several times.

Purge the hydraulic system of air. During transit the unit may become "air-bound", causing a spongy ram action. To purge the system. close the release valve (turn clockwise). Manually pump the jack to full height. Open the release valve and push down on the ram. Repeat these steps if necessary to completely purge the system.

Keep the jack clean. Occasionally lubricate the handle socket pivot point, extension screw, release screw thread, and air valve to prevent corrosion.

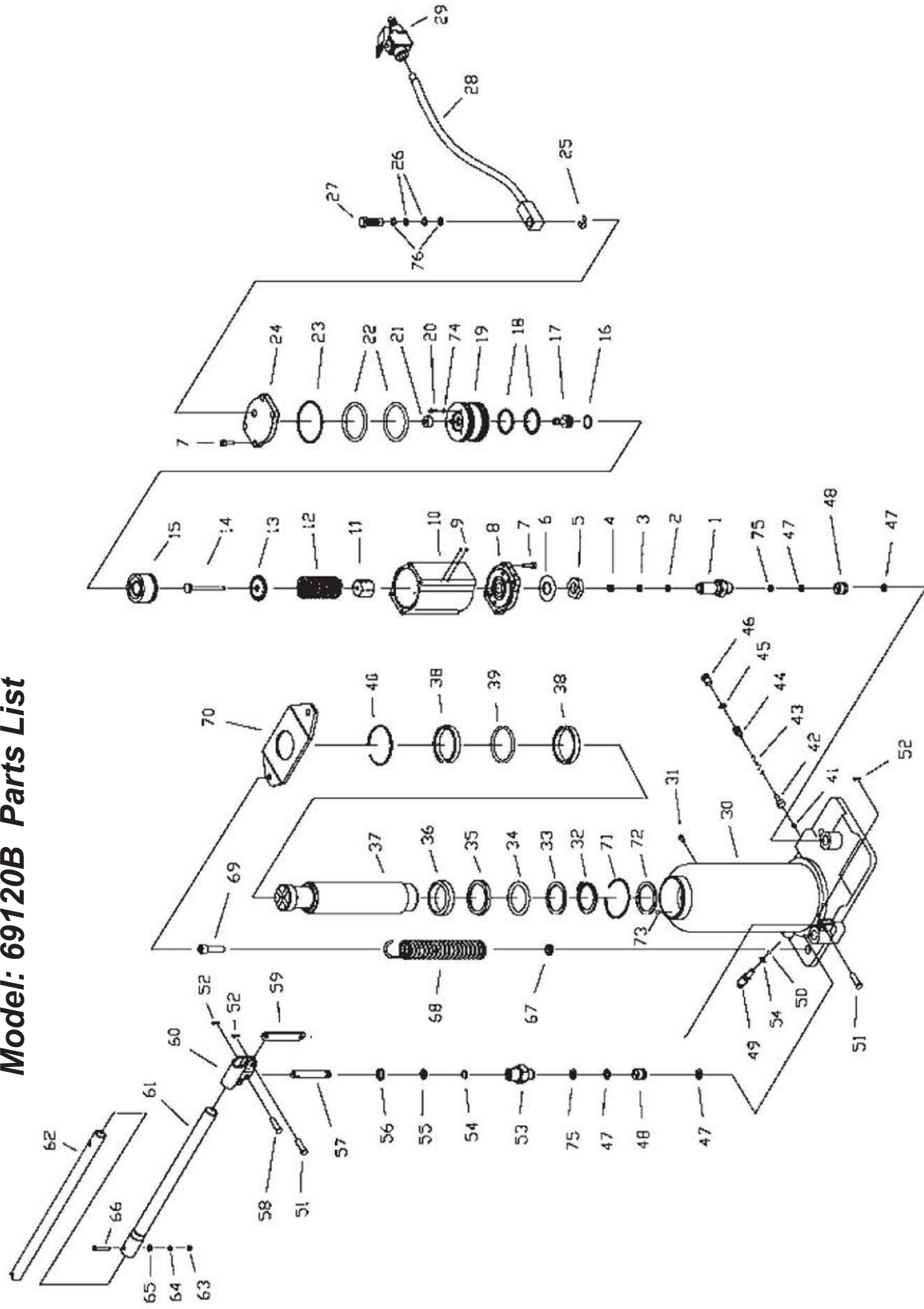
Operation

1. Jack operation is controlled either manually or by external air pressure. Either insert the handle into the handle socket to manually operate or connect to an external air pressure source (clean connections prior to assembly).
2. To raise the jack, turn the release valve clockwise until tight and either manually pump with the provided handle or while connected to an air supply depress the air valve.
3. To lower the jack turn the release valve counter clockwise slightly and very slowly. Be careful not to turn the release valve too quickly or more than two full rotations, otherwise, dangerous sudden lowering may occur.

Trouble Shooting

Problem	Cause	Solution
Air pump will not operate	• Low air pressure • Air outlet is frozen • Lack of lubrication	• Keep air pressure between 101-145 psi • Stop using and thaw frozen outlet • Supply oil to air valve
Air pump acts but ram won't rise	• Release valve is open • Lack of hydraulic oil • "Air-bound" system	• Close valve clockwise • Add hydraulic oil • See maintenance
Ram will not rise to highest position	• Lack of hydraulic oil • Release valve not fully closed	• Add hydraulic oil • Close valve clockwise
Ram lowers slowly	• Outlet valve dirty or defective • Air pump packing defective	Contact your equipment dealer / service center
Ram rises slowly	• Filter is filled with dirt • Air pump packing defective • Release valve not fully closed	Contact your equipment dealer / service center
Oil blowing from air pump	Air pump packing defective	Contact your equipment dealer / service center
Ram will not lower	Release valve/circuit defective	Contact your equipment dealer / service center

Model: 69120B Parts List



Part No.	Description	Q'ty	Part No.	Description	Q'ty	Part No.	Description	Q'ty
01	Pump Cylinder	1	27	Coupler	1	53	Pump Cylinder	1
02	Y-Seal	1	28	Air Hose Assy	1	54	O-ring	2
03	Nylon Gasket	1	29	Air Valve Assy	1	55	Nylon Gasket	1
04	Copper Washer	1	30	Oil Tank Assy	1	56	Dustproof Ring	1
05	Nut	1	31	Oil Filler Plug	1	57	Pump Plunger	1
06	Butterfly Washer	1	32	Snap Ring	1	58	Pump Plunger Pin	1
07	Socket Head Cap Screw	8	33	O-ring Retainer	1	59	Link	1
08	Base Cover	1	34	O-ring	1	60	Socket	1
09	Steel Ball	4	35	Seal Washer	1	61	Front Handle	1
10	Air Motor Housing	1	36	Piston Ring	1	62	Real Handle	1
11	Nut	1	37	Ram Ass'y	1	63	Hex Nut	1
12	Spring	1	38	Bushing	2	64	Lock Washer	1
13	Washer	1	39	O-ring	1	65	Flat Washer	1
14	Air Pump Plunger	1	40	Snap Ring	1	66	Cross Head Socket Screw	1
15	Air Piston Base	1	41	Steel Ball	1	67	Hex Nut(thin)	2
16	O-ring	2	42	Safety Valve Ball Seat	1	68	Return Spring	2
17	Air shuttle Valve	1	43	Safety Valve Spring	1	69	Screw	2
18	O-ring	2	44	Safety Valve Adjusting Screw	1	70	Spring Lid	1
19	Air Piston	1	45	O-ring	1	71	Snap Ring	1
20	Socket Head Cap Screw	3	46	Screw	1	72	Washer	1
21	Shuttle Valve Seal	1	47	Coper Washer	4	73	Steel Ball	1
22	O-ring	2	48	Valve Block Ass'y	2	74	O-ring	3
23	O-ring	1	49	Release Ass'y	1	75	Nylon Gasket	2
24	Top Cover	1	50	Steel Ball	1	76	Nylon Gasket	2
25	Snap Ring	1	51	Link Pin	2	--		
26	O-ring	2	52	Pin	3	--		

LIMITED ONE YEAR WARRANTY

Jackco Transnational Inc. warrants all Jackco equipment and tools to the original purchaser against any manufacturing defect in material or workmanship for a period of one (1) year from the original date of purchase. If the defective equipment or tool is determined to be covered under this warranty, it shall be repaired or replaced at manufacturer's discretion without charge, provided that the equipment or tool must be returned with proof of purchase to the dealer and freight prepaid, if returned to the manufacturer. This warranty shall not apply to damage due to accident, negligent use, and lack of maintenance, abuse or applications other than the specific function the equipment or tool is designed for.

No other warranties, expressed or implied, including those of merchantability or fitness for particular purpose shall be applicable to Jackco except as specifically stated herein. In no event shall Jackco be liable to any party for any special, direct, indirect, consequential, punitive damage of any nature caused by the sale or use of the equipment or tool.

Note: This warranty gives the original purchaser specific legal rights which may vary from state to state.

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